

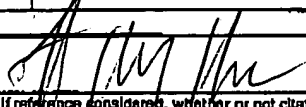
PTO/SB/088 (08-03)

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Substitute for form 1449/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/730680		
		Filing Date	December 8, 2003		
		First Named Inventor	Nicole Barvian, et al.		
		Art Unit	Not Yet Known		
		Examiner Name	Not Yet Known		
Sheet	1	of	2	Attorney Docket Number	PC 20508A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KH		Chemical Abstract AN: 2003:1957877 CHEMCATS, PD: July 9, 2002	
		Chemical Abstract AN: 2003:1940777 CHEMCATS, PD: July 9, 2002	
		Chemical Abstract AN: 2003:1940509 CHEMCATS, PD: July 9, 2002	
		Chemical Abstract AN: 2003:1940371 CHEMCATS, PD: July 9, 2002	
		Chemical Abstract AN: 2002:2995642 CHEMCATS, PD: January 17, 2002	
		Chemical Abstract AN: 2002:2977312 CHEMCATS, PD: July 9, 2002	
		Chemical Abstract AN: 2002:2647933 CHEMCATS, PD: July 9, 2002	
		Chemical Abstract AN: 2002:2272781 CHEMCATS, PD: July 9, 2002	
		Chemical Abstract AN: 2002:1467769 CHEMCATS, PD: January 17, 2002	
		Chemical Abstract AN: 2002:1464450 CHEMCATS, PD: January 17, 2002	

Examiner Signature		Date Considered	10/5/2005
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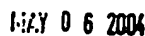
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KH		Chemical Abstract AN: 2002:1461688 CHEMCATS, PD: January 17, 2002	
		Chemical Abstract AN: 2002:1460415 CHEMCATS, PD: January 17, 2002	
		Chemical Abstract AN: 2002:1458784 CHEMCATS, PD: January 17, 2002	
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Sheet	1	of	1
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U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

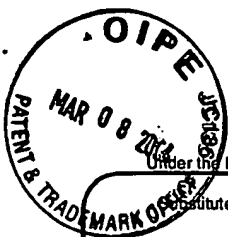
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 4

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U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KH ↓		US- US 4,824,833			
		US- US 5,703,075			
		US- US 6,518,277			
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
KH ↓		WO 01/53266				
		WO 01/81346				
		EP 1277738				

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		First Named Inventor	Nicole Barvian, et al.		
		Art Unit	Not Yet Known		
		Examiner Name	Not Yet Known		
Sheet	2	of	4	Attorney Docket Number	PC 50508

NON PATENT LITERATURE DOCUMENTS			
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KH		ALIMOV, et al., Somatic Mutation and Homozygous Deletion fo PTEN/MMAC1 Gene 10q23 in Renal Cell Carcinoma, Anticancer Research, 1999, pp 3841-3846, Vol 19	
		BORLANDO, et al., Increased phosphoinositide 3-kinase activity induces a lymphoproliferative disorder and contributes to tumor generation in vivo, FASEB J., May 2000, pp. 895-903, Vol 14	
		BRASS, et al., DNA Amplification on Chromosome 3q26.1-q26.3 in Squamous Cell Carcinoma of the Lung Detected by Reverse Chromosome Painting, Eur. J. Cancer, 1996, pp 1205-1208, Vol 32A(7), Great Briatin	
		FORGACS, et al., Mutation analysis of the PTEN/MMAC1 gene in lung cancer, Oncogene, 1998, pp 1557-1565, Vol 17	
		HIRSCH, et al., Central Role for G Protein-Coupled Phosphoinositide 3-Kinase in Inflammation, Science, February 2000, pp 1049-1053, Vol 287, USA	
		HIRSCH, et al., Resistance to thromboemolism in PI3K-deficient mice, FASEB Journal, July 2001, pp. 2019-2021, USA	
		HU, et al., Inhibition of Phosphatidylinositol, 3'-Kinase Increases Efficacy of Pacticaxel in in Vitro and in Vivo Ovarian Cancer ModelsI, Cancer Res., February 2002, pp. 1087-1092, Vol 62	
		JIMENEZ, et al., Identification and characterization of new oncogene derived from the regulatory subunit of phosphoinositide 3-kinase, EMBO Journal, 1998, pp 743-753, Vol 17(3), USA	
		KATSO, et al., Cellular Function of phosphoinositide 3-Kinases: Implications for Development, Immunity, Homeostasis, and Cancer, Annu. Rev. Cell Dev. Biol. 2001, pp 615-675, Vol 17, USA	
✓		KOTELEVETS, et al., Inhibition by Platelet-activating Factor of Src-and Hepatocyte Growth Factor-dependent Invasiveness of Intestinal and Kidney Epithelial Cells, J. Biol. Chem., June 1998, pp 14138-14145, Vol 273(23), USA	

Examiner Signature		Date Considered	10/5/2005
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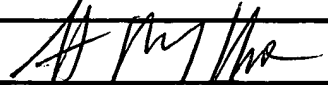
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		Application Number	10/730,680		
		Filing Date	December 8, 2003		
		First Named Inventor	Nicole Bavian, et al		
		Art Unit	Not Yet Known		
		Examiner Name	Not Yet Known		
Sheet	3	of	4	Attorney Docket Number	PC 20508A

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KH		KRCHAK, et al., A solid phase traceless synthesis of quinoxalinones, Tetrahedron Letters, 2000, pp 2835-2838, USA	
		LEE, et al., Solid-phase combinatorial synthesis of 5-arylalkylidene rhodanine, Tetrahedron Letters, 2000, pp 5729-5732, USA	
		LEE, et al., The Raf/MEK/ERK signal transduction cascade as a target for chemotherapeutic intervention in leukemia, Leukemia, 2002, pp 486-507, Vol 16, USA	
		LEOPOLDT, et al., GBY Stimulates Phosphoinositide 3-Kinase-y by Direct Interaction with Two Domains of the Catalytic p110 Subunit, December 1997, pp 7024-7029, Vol 273(12), USA	
		MA, et al., PIK3CA as an oncogene in cervical cancer, Oncogene, 2000 pp 2739-2744, Vol 19,	
		NAKANISHI, et al., Novel Functions of Phosphatidylinositol 3-Kinase in Terminally Differentiated Cells, Cellular Signalling, 1995, pp 545-557, Vol 6, Great Britain	
		PHILP, et al., The Phosphatidylinositol 3'-kinase p85a Gene Is an Oncogene in Human Ovarian and Colon Tumors, Cancer Research, October 2001, pp 7426-7429, Vol 61, USA	
		SHAYESTEH, et al., PIK3CA is implicated as an oncogene in ovarian cancer, Nature Genetics, January 1999, pp. 99-102, Vol 21	
		SUSA, et al., Platelet-derived Growth Factor Activates Membrane-associated Phosphatidylinositol 3-Kinase and Mediates Its Translocation from the Cytosol, November 1992. Pp 22951-22956, Vol 267(32), USA	
		VANHAESEBROECK, et al., p110, a novel phosphoinositide 3-kinase in leukocytes, Proc. Natl. Acad. Sci., April 1997, pp. 4330-4335, Vol. 94, USA	

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